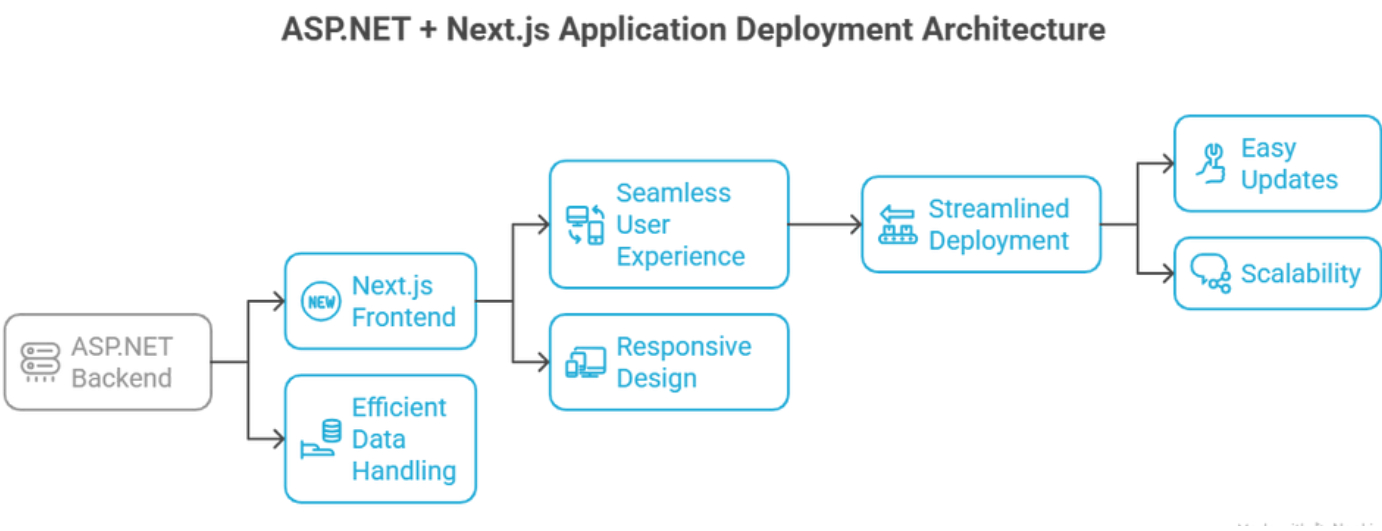


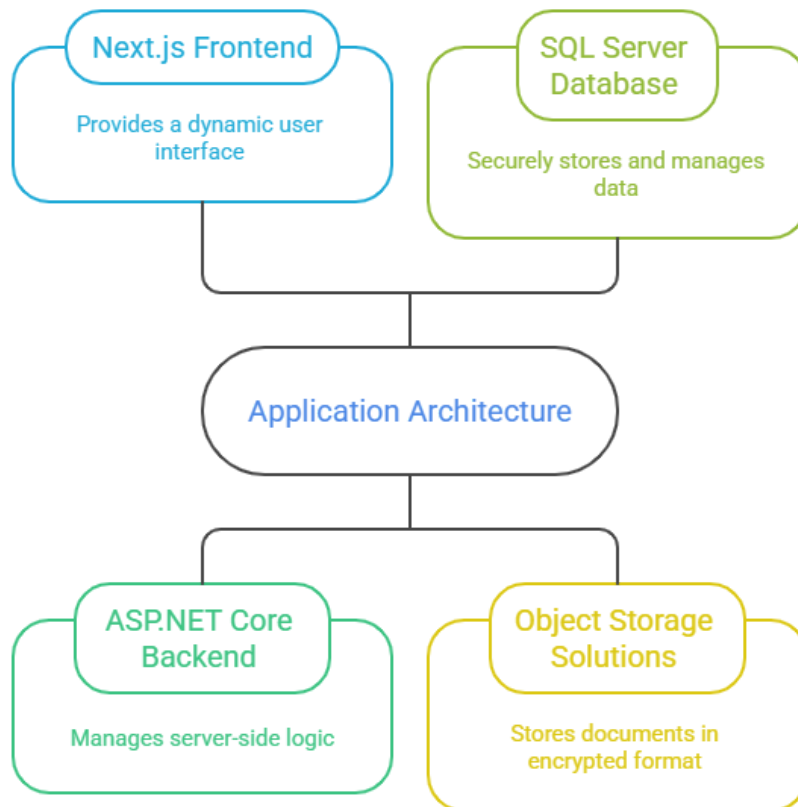
Deployment Architecture:

Here's a concise summary of the ASP.NET + Next.js application deployment architecture shown in your diagram:



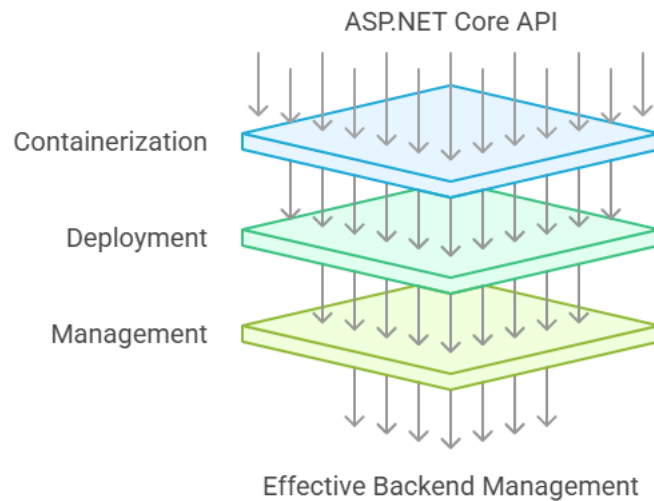
The architecture integrates a Next.js frontend with an ASP.NET Core backend, supported by a SQL Server database and object storage. Key components include:

Integrated Application Architecture



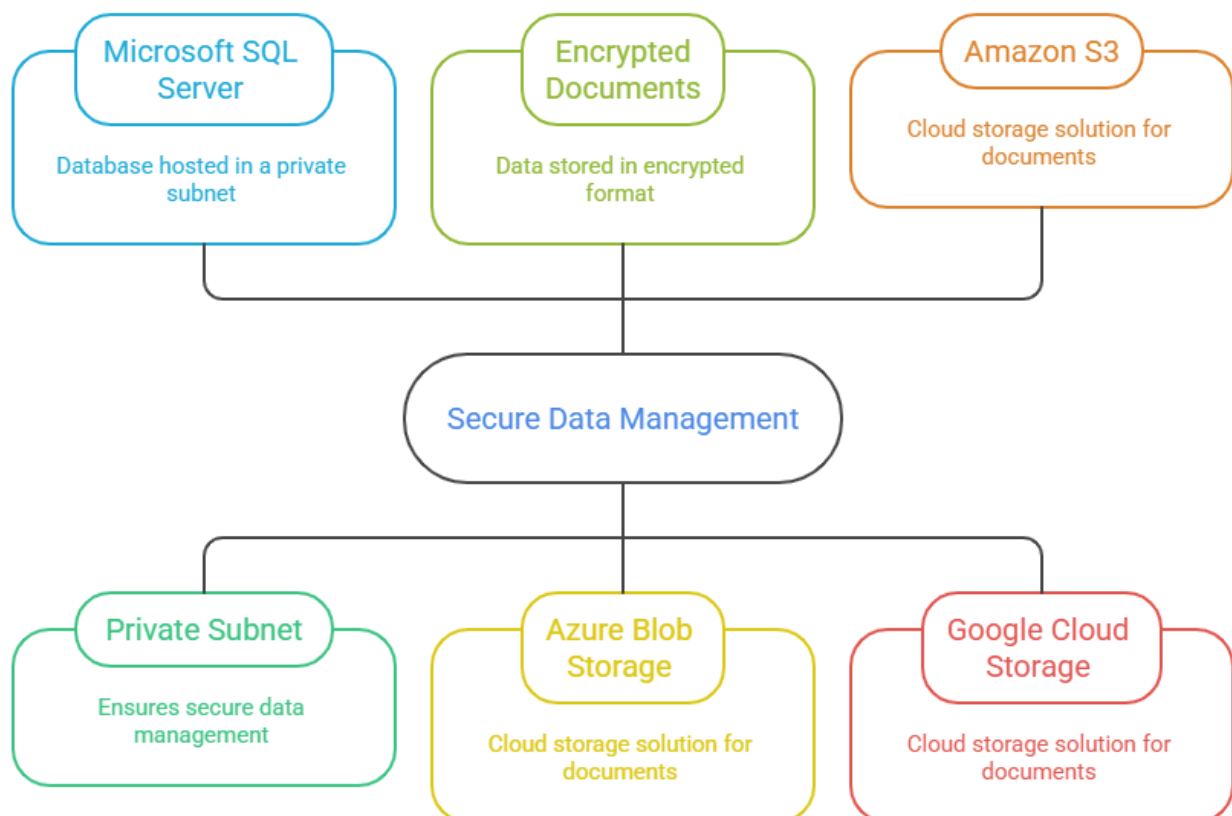
Frontend: Next.js application hosted on a CDN-backed platform for fast content delivery.
Backend: [ASP.NET](#) Core API deployed using containerization and managed through an application gateway.

Backend Deployment Process

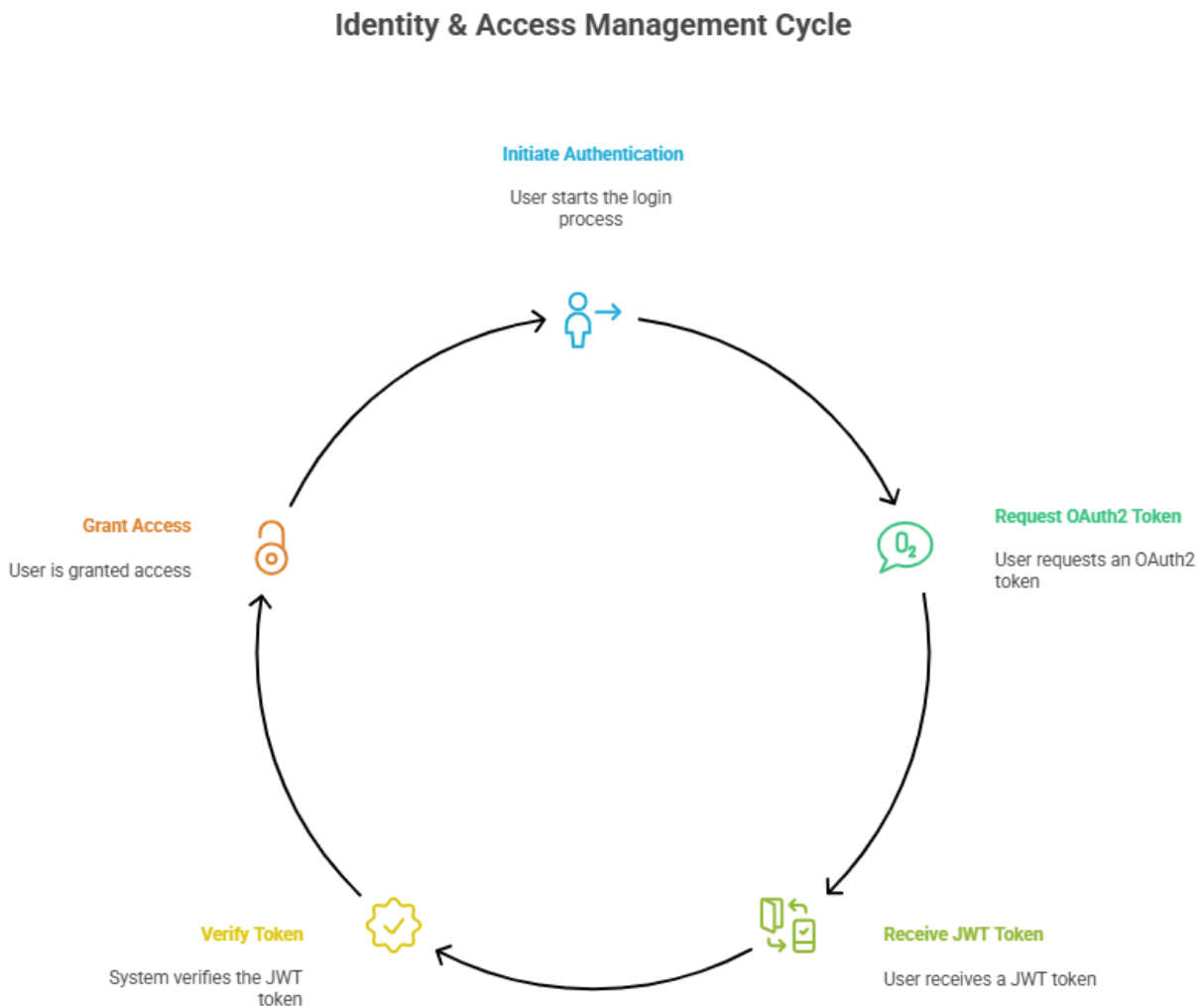


Database: Microsoft SQL Server is hosted in a **private subnet** to ensure secure data management, with **documents stored in encrypted format** using popular object storage solutions such as **Azure Blob Storage, Amazon S3, or Google Cloud Storage**, providing enhanced confidentiality and regulatory compliance.

Secure Data Management Overview



Identity & Access Management: OAuth2/JWT tokens and identity providers for authentication and authorization.



I/CD Pipelines: Automated deployment via GitHub Actions, Azure DevOps, or GitLab CI.

Observability: Centralized logging, distributed tracing, and health probes for monitoring.

Auto-Scaling: Horizontal pod scaling and app service scaling rules for handling traffic spikes.

Overall, the architecture emphasizes scalability, security, observability, and automated deployments while integrating frontend, backend, storage, and identity management in a cloud-ready environment.

Hosting Configuration

Please find below the details of the services we are currently using along with their associated costs:

1. Configuration:

Fully managed **WIN SSD Cloud 2x server** at multimedia.interactivedns.com with **2 CPU Cores, 8GB RAM, 160GB SSD storage, 3TB monthly bandwidth, 1000 Mbps port speed, and 1 IPv4 + 1 IPv6 address**. Running **Windows Server 2019 Standard Edition 64-bit** with **Plesk Web Pro Edition, SQL Server 2019 Express Edition, 500GB cloud storage, and daily or weekly snapshot backups**.

Server Configuration Details

**Server Specifications**

2 CPU Cores, 8GB RAM, 160GB SSD storage, 3TB bandwidth, 1000 Mbps port speed, and IPv4/IPv6 addresses.

**Operating System**

Windows Server 2019 Standard Edition 64-bit.

**Software**

Plesk Web Pro Edition, SQL Server 2019 Express Edition.

**Storage**

500GB cloud storage with daily or weekly snapshot backups.

Cost Details:

Sub Total: ₹41,100.00
Taxes (CGST + SGST 9% each): ₹7,398.00
Total: ₹48,498.00

These services are billed quarterly and are essential for hosting, backup, licensing, and management of our server multimedia.interactivedns.com

Quarterly Service Costs

Service	SSD Cloud 4x	Snapshot Backup	Microsoft Windows Standard	Plesk Web Pro License	Backup Cloud Storage
Cost	₹19,200.00	₹4,800.00	₹8,100.00	₹6,750.00	₹2,250.00